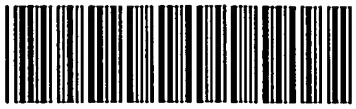

RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: US/10/506,549 TIME: 16:15:50

Input Set : A:\SEQLIST_1361US.txt
Output Set: N:\CRF4\09092004\J506549.raw

<110> APPLICANT: APPLERA CORPORATION

<120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS, AND USES THEREOF

<130> FILE REFERENCE: CL001361-US

C--> <140> CURRENT APPLICATION NUMBER: US/10/506,549

C--> <141> CURRENT FILING DATE: 2004-09-03

<150> PRIOR APPLICATION NUMBER: 60/361,343

<151> PRIOR FILING DATE: 2002-03-05

<160> NUMBER OF SEQ ID NOS: 4

<170> SOFTWARE: FastSEQ for Windows Version 4.0

<210> SEQ ID NO: 1

<211> LENGTH: 2679

<212> TYPE: DNA

<213> ORGANISM: Homo sapiens

<400> SEQUENCE: 1

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gcaacctccg ggactctgac ggtgaccaac ttattagaaa aggatgacaa aattcctaaa 180
acattccaga attcccttat tcatcttgga ctcaacacta tgaagtctgc aaatatatgt 240
ataggtcgac cagtgttgct tactagtttg aacggaaagc aagaggtgta tacagcctgg 300
cctatggcag gatttcctgg aggcaaggtc ggcctgagtg aaatggcaca gaaaaatgtg 360
ggtgtgaggc ctggtgatgc catccaggtc cagcctcttg tgggtgctgt gctacaggct 420
gaggaaatgg atgtggcact gagtgacaaa gatatggaaa ttaatgaaga agaactgact 480
ggttgtatcc tgagaaaact agatggcaag attgttttac caggcaactt tctgtattgt 540
acattctatg gacgaccgta caagctgcaa gtattgcgag tgaaaggggc agatggcatg 600
atattgggag ggcctcagag tgactctgac actgatgccc aaagaatggc ctttgaacag 660
tccagcatgg aaaccagtag cctggagtta tccttacagc taagccagtt agatctggag 720
gatacccaga tcccaacatc aagaagtact ccttataaac caattgatga cagaattaca 780
aataaagcca gtgatgtttt gctggatgtt acacagagcc ctggagatgg cagtggactt 840
atgctagagg aagtcacagg tcttaaatgt aattttgaat ctgccagaga aggaaatgag 900
caacttactg aagaagagag actgctaaag ttcagcatag gagcaaagtg caatactgat 960
acttttatt ttatttcttc aacaacaaga gtcaatttta cagagattga taaaaattca 1020
aaagagcaag acaaccaatt caaagtaact tatgacatga taggaggatt aagtagccag 1080
ctgaaagcaa ttagagaaat aattgaattg cccctcaaac agcctgagct tttcaagagt 1140
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gaaattataa gcaaattcta tggtgagact gaagcaaagt tacgtcagat atttgctgaa 1320
gccactctac gacacccatc aattattttt attgatgagc tggatgcact ttgtccgaaa 1380
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RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: **US/10/506,549** TIME: 16:15:50

Input Set : **A:\SEQLIST_1361US.txt**
Output Set: **N:\CRF4\09092004\J506549.raw**

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56 gcagacttga aagtcttgtg taatgaagca ggtctctgtg ccttgcggag aatcctgaaa 1740
57 aaacagccta acctccctga tgtcaaggtg gctggactgg tgaagattac tctgaaggat 1800
58 ttcttgcagg caatgaatga tatcagaccc agtgccatga gggaaatagc aattgatgtc 1860
59 ccaaatgtat cctggtcaga tataggagga ctggaaagta tcaaactgaa gttggaacag 1920
60 gctgtggaat ggcccttaaa acatccagag tctttcattc gaatgggtat tcagccacct 1980
61 aaaggagttc ttctctatgg gccacctggg tgctctaaaa caatgatagc aaaggctttg 2040
62 gccaatgaga gtggactgaa ttttctagct ataaaggggc ctgaattaat gaataaatat 2100
63 gttggtgaat ctgaaagagc agttagagag accttccgaa aagcaagagc agtggcgcct 2160
64 tccattattt tctttgatga actggatgcc ttagcagttg aaaggggcag ttctttaggt 2220
65 gctgggaatg tagccgatcg tgttttggct cagctcttaa cagaaatgga tgggattgaa 2280
66 cagctaaagg atgtgaccat tttggcagct actaaccgtc cagataggat agacaaggct 2340
67 ttgatgcggc ctggaagaat tgatagaatc atctatgtgc ctttaccgga tgcagcaaca 2400
68 agaagggaaa tatttaagct gcagtttcac tccatgcctg tcagtaatga agttgacctg 2460
69 gatgaactca tccttcaaac cgacgcatac tcaggagcag agattgtagc tgtctgcaga 2520
70 gaggcagctc ttctggctct ggaagaagac attcaagcca atctcatcat gaaaagacat 2580
71 ttcactcagg ccttgagcac tgtgacacct agaattcctg agtcattgag acgttttat 2640
72 gaagattatc aagagaagag tgggctgcat acactctga                       2679
74 <210> SEQ ID NO: 2
75 <211> LENGTH: 892
76 <212> TYPE: PRT
77 <213> ORGANISM: Homo sapiens
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82 Gly Ser Ser Leu Pro Ser Ala Ala Ser Ser Cys Ala Glu Ala Arg Ala
83             20                  25                  30
84 Pro Ser Ala Gly Ser Asp Phe Ala Ala Thr Ser Gly Thr Leu Thr Val
85         35                  40                  45
86 Thr Asn Leu Leu Glu Lys Asp Asp Lys Ile Pro Lys Thr Phe Gln Asn
87     50                  55                  60
88 Ser Leu Ile His Leu Gly Leu Asn Thr Met Lys Ser Ala Asn Ile Cys
89 65                  70                  75                  80
90 Ile Gly Arg Pro Val Leu Leu Thr Ser Leu Asn Gly Lys Gln Glu Val
91                 85                  90                  95
92 Tyr Thr Ala Trp Pro Met Ala Gly Phe Pro Gly Gly Lys Val Gly Leu
93             100                 105                 110
94 Ser Glu Met Ala Gln Lys Asn Val Gly Val Arg Pro Gly Asp Ala Ile
95         115                 120                 125
96 Gln Val Gln Pro Leu Val Gly Ala Val Leu Gln Ala Glu Glu Met Asp
97     130                 135                 140
98 Val Ala Leu Ser Asp Lys Asp Met Glu Ile Asn Glu Glu Glu Leu Thr
99 145                 150                 155                 160
100 Gly Cys Ile Leu Arg Lys Leu Asp Gly Lys Ile Val Leu Pro Gly Asn
101                165                 170                 175
102 Phe Leu Tyr Cys Thr Phe Tyr Gly Arg Pro Tyr Lys Leu Gln Val Leu
103             180                 185                 190
104 Arg Val Lys Gly Ala Asp Gly Met Ile Leu Gly Gly Pro Gln Ser Asp
105         195                 200                 205
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RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: US/10/506,549 TIME: 16:15:50

Input Set : A:\SEQLIST_1361US.txt
Output Set: N:\CRF4\09092004\J506549.raw

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106 Ser Asp Thr Asp Ala Gln Arg Met Ala Phe Glu Gln Ser Ser Met Glu
107     210                 215                 220
108 Thr Ser Ser Leu Glu Leu Ser Leu Gln Leu Ser Gln Leu Asp Leu Glu
109 225                 230                 235                 240
110 Asp Thr Gln Ile Pro Thr Ser Arg Ser Thr Pro Tyr Lys Pro Ile Asp
111                 245                 250                 255
112 Asp Arg Ile Thr Asn Lys Ala Ser Asp Val Leu Leu Asp Val Thr Gln
113             260                 265                 270
114 Ser Pro Gly Asp Gly Ser Gly Leu Met Leu Glu Glu Val Thr Gly Leu
115         275                 280                 285
116 Lys Cys Asn Phe Glu Ser Ala Arg Glu Gly Asn Glu Gln Leu Thr Glu
117     290                 295                 300
118 Glu Glu Arg Leu Leu Lys Phe Ser Ile Gly Ala Lys Cys Asn Thr Asp
119 305                 310                 315                 320
120 Thr Phe Tyr Phe Ile Ser Ser Thr Thr Arg Val Asn Phe Thr Glu Ile
121                 325                 330                 335
122 Asp Lys Asn Ser Lys Glu Gln Asp Asn Gln Phe Lys Val Thr Tyr Asp
123             340                 345                 350
124 Met Ile Gly Gly Leu Ser Ser Gln Leu Lys Ala Ile Arg Glu Ile Ile
125         355                 360                 365
126 Glu Leu Pro Leu Lys Gln Pro Glu Leu Phe Lys Ser Tyr Gly Ile Pro
127     370                 375                 380
128 Ala Pro Arg Gly Val Leu Leu Tyr Gly Pro Pro Gly Thr Gly Lys Thr
129 385                 390                 395                 400
130 Met Ile Ala Arg Ala Val Ala Asn Glu Val Gly Ala Tyr Val Ser Val
131                 405                 410                 415
132 Ile Asn Gly Pro Glu Ile Ile Ser Lys Phe Tyr Gly Glu Thr Glu Ala
133             420                 425                 430
134 Lys Leu Arg Gln Ile Phe Ala Glu Ala Thr Leu Arg His Pro Ser Ile
135         435                 440                 445
136 Ile Phe Ile Asp Glu Leu Asp Ala Leu Cys Pro Lys Arg Glu Gly Ala
137     450                 455                 460
138 Gln Asn Glu Val Glu Lys Arg Val Val Ala Ser Leu Leu Thr Leu Met
139 465                 470                 475                 480
140 Asp Gly Ile Gly Ser Glu Val Ser Glu Gly Gln Val Leu Val Leu Gly
141                 485                 490                 495
142 Ala Thr Asn Arg Pro His Ala Leu Asp Ala Ala Leu Arg Arg Pro Gly
143             500                 505                 510
144 Arg Phe Asp Lys Glu Ile Glu Ile Gly Val Pro Asn Ala Gln Asp Arg
145         515                 520                 525
146 Leu Asp Ile Leu Gln Lys Leu Leu Arg Arg Val Pro His Leu Leu Thr
147     530                 535                 540
148 Glu Ala Glu Leu Leu Gln Leu Ala Asn Ser Ala His Gly Tyr Val Gly
149 545                 550                 555                 560
150 Ala Asp Leu Lys Val Leu Cys Asn Glu Ala Gly Leu Cys Ala Leu Arg
151                 565                 570                 575
152 Arg Ile Leu Lys Lys Gln Pro Asn Leu Pro Asp Val Lys Val Ala Gly
153             580                 585                 590
154 Leu Val Lys Ile Thr Leu Lys Asp Phe Leu Gln Ala Met Asn Asp Ile
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RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: US/10/506,549 TIME: 16:15:50

Input Set : A:\SEQLIST_1361US.txt
Output Set: N:\CRF4\09092004\J506549.raw

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595                 600                 605
Arg Pro Ser Ala Met Arg Glu Ile Ala Ile Asp Val Pro Asn Val Ser
    610                 615                 620
Trp Ser Asp Ile Gly Gly Leu Glu Ser Ile Lys Leu Lys Leu Glu Gln
625                 630                 635                 640
Ala Val Glu Trp Pro Leu Lys His Pro Glu Ser Phe Ile Arg Met Gly
                645                 650                 655
Ile Gln Pro Pro Lys Gly Val Leu Leu Tyr Gly Pro Pro Gly Cys Ser
            660                 665                 670
Lys Thr Met Ile Ala Lys Ala Leu Ala Asn Glu Ser Gly Leu Asn Phe
        675                 680                 685
Leu Ala Ile Lys Gly Pro Glu Leu Met Asn Lys Tyr Val Gly Glu Ser
    690                 695                 700
Glu Arg Ala Val Arg Glu Thr Phe Arg Lys Ala Arg Ala Val Ala Pro
705                 710                 715                 720
Ser Ile Ile Phe Phe Asp Glu Leu Asp Ala Leu Ala Val Glu Arg Gly
                725                 730                 735
Ser Ser Leu Gly Ala Gly Asn Val Ala Asp Arg Val Leu Ala Gln Leu
            740                 745                 750
Leu Thr Glu Met Asp Gly Ile Glu Gln Leu Lys Asp Val Thr Ile Leu
        755                 760                 765
Ala Ala Thr Asn Arg Pro Asp Arg Ile Asp Lys Ala Leu Met Arg Pro
    770                 775                 780
Gly Arg Ile Asp Arg Ile Ile Tyr Val Pro Leu Pro Asp Ala Ala Thr
785                 790                 795                 800
Arg Arg Glu Ile Phe Lys Leu Gln Phe His Ser Met Pro Val Ser Asn
                805                 810                 815
Glu Val Asp Leu Asp Glu Leu Ile Leu Gln Thr Asp Ala Tyr Ser Gly
            820                 825                 830
Ala Glu Ile Val Ala Val Cys Arg Glu Ala Ala Leu Leu Ala Leu Glu
        835                 840                 845
Glu Asp Ile Gln Ala Asn Leu Ile Met Lys Arg His Phe Thr Gln Ala
    850                 855                 860
Leu Ser Thr Val Thr Pro Arg Ile Pro Glu Ser Leu Arg Arg Phe Tyr
865                 870                 875                 880
Glu Asp Tyr Gln Glu Lys Ser Gly Leu His Thr Leu
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<210> SEQ ID NO: 3
<211> LENGTH: 394191
<212> TYPE: DNA
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<223> OTHER INFORMATION: n = A,T,C or G
<400> SEQUENCE: 3

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ctgaaaccac ccaccaccgt ccctggttaa tcataaaaga agcgttattc taaaaaactc 120
cagttctcgc tgagacagct gttgacccaa tttgtataca aatgtgacac tctgaacctc 180
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RAW SEQUENCE LISTING DATE: 09/09/2004
PATENT APPLICATION: US/10/506,549 TIME: 16:15:50

Input Set : A:\SEQLIST_1361US.txt
Output Set: N:\CRF4\09092004\J506549.raw

208 tctggtttag tatttgatag cccaacaggg tgactatatt caataaagat tcaggctggg 240
209 tgcagtggct cctgcctgta atcccagcac tttgaggggc caaggcggga gaatcagttg 300
210 agcccgggag actgagacca gcctgggcaa cacagtgaga caccgtttct agaaaaaata 360
211 gaaaaaagcc agatgcgcgc ctgtagtcct agctacccag gaggctgagg tgggaggatt 420
212 gcttgagctc aggggttgga ggctgcagtg aaccctgatc ctaccactgc actctagcct 480
213 gggagacaga atgataccct ctctcaaaaa aaaaaaaaaa aaaaaaaaaa actgtacatt 540
214 taaaaataac taagagtaac tggattatgg ttgaatgctt gtggtgatga gtatctcatt 600
215 taccctgatg taattattac acatttatac ctctatcaaa atagctcata taccccataa 660
216 acatacacac ctactatgga cccacaaaaa ttaaaaataa aaaagaaaag cctctttggt 720
217 ccactcagtc caccacccgt attagaatgt aagagttttt ttccttggga aaagtgtccg 780
218 acagaaccaa ggctcggtaa aggatactaa taatgtaata atataatatt aacaaacatc 840
219 tactgagctt taaatacgtg gcaggcactg tgctgtgcac tttatgtgca ttatccaaat 900
220 taactctcag taattccagg agttcttatc accggggtct gtggaagagg aaatggtggt 960
221 ttacggcaat ttccgaatgt cgcacagtag aaagtggacc agcaaccagg gttgcagatc 1020
222 ccaaagtccg ggatcttcac catttcaccc aaccgcctta gagacctccc agcaaaaggt 1080
223 ctaagcacga atgctccaga aaacaggtcc aggtcacgcg tgccttctcc ctttccctct 1140
224 gggctcgaca gtggtgcaca gagcgactag ggagtggggg ccgcggttat ttcattagaa 1200
225 aagctctgga gccccgggag cccttcgtcc caggcgcact tgccctgcaa gcccttctgg 1260
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230 tccgttgccc aaatgacccc tccgcgctcc agagcggaga tcgcggccgt acattttaga 1560
231 agagtgccat caataccctc agagttgagc tggggttacc actctgcaga gctatgccaa 1620
232 ggagaccgcg aagtggtcca ccagcccttc tcagcaattt gccccgctcc agttaagcgg 1680
233 ggaaaacctc ctcccccacc gccactcact tattttgttt ggtagtttaa ttcaacagac 1740
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237 tgcgctccac tcaggggatt acggcgcagg ggcggaccct cgctgacttc tgccccggaa 1980
238 gtttttctct cagttgaagc gcgcacattg agtcggcttt tctactgctt cggctagggt 2040
239 accttgtgac catgtcttcc aagaagaata gaaagcggtt gaaccaaagc gcggaaaatg 2100
240 gttcgtcctt gccctctgct gcttcctctt gtgcggaggc acgggctcct tctgctggat 2160
241 cagacttcgc ggcaacctcc gggactctga cggtgaccaa cttattagaa aagggtaaag 2220
242 aattccgggt gggagactag aggccgaggg ggcgcaacct gaggggcggg agactcagtg 2280
243 atactgactt ggggtgcaga gacttttgaa agttgggcgt ggcatgggtc tgagagcggc 2340
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247 caaaattgtt cataactagc gaacatggga tacttatcct aaaaaactaa ataaccaatt 2580
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/09/2004
PATENT APPLICATION: US/10/506,549 TIME: 16:15:51

Input Set : A:\SEQLIST_1361US.txt
Output Set: N:\CRF4\09092004\J506549.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 09/09/2004
PATENT APPLICATION: **US/10/506,549** TIME: 16:15:51

Input Set : **A:\SEQLIST_1361US.txt**
Output Set: **N:\CRF4\09092004\J506549.raw**

Seq#:3; N Pos. 77361,77362,77363,77364,77365,77366,77367,77368,77369,77370
Seq#:3; N Pos. 77371,77372,77373,77374,77375,77376,77377,77378,77379,77380
Seq#:3; N Pos. 77381,77382,77383,77384,77385,77386,77387,77388,77389,77390
Seq#:3; N Pos. 77391,77392,77393,77394,77395,77396,77397,77398,77399,77400
Seq#:3; N Pos. 77401,77402,77403,77404,77405,77406,77407,77408,77409,77410
Seq#:3; N Pos. 77411,77412,77413,77414,77415,77416,77417,77418,77419,77420
Seq#:3; N Pos. 77421,77422,77423,77424,77425,77426,77427,77428,77429,77430

VERIFICATION SUMMARY DATE: 09/09/2004
PATENT APPLICATION: **US/10/506,549** TIME: 16:15:51

Input Set : **A:\SEQLIST_1361US.txt**
Output Set: **N:\CRF4\09092004\J506549.raw**

L:12 M:270 C: Current Application Number differs, Replaced Current Application Number
L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:386 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:10860
M:341 Repeated in SeqNo=3